

# GenUP™ FFPE Paraffin Removal Solution

**LOT:** See product label

**EXPIRY DATE:** See product label

## ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR0701601	10 ml	10 ml GenUP FFPE Paraffin Removal Solution
BR0701602	50 ml	5 × 10 ml GenUP FFPE Paraffin Removal Solution

### COMPONENT

GenUP FFPE Paraffin Removal Solution

### COMPOSITION

Single solution formulation in dispensing-cap bottle for fast and easy DNA or RNA extraction.

### STORAGE

Room temperature (until expiry date – see product label)

## FEATURES

- One-step deparaffinization of FFPE slices
- No toxic or flammable chemicals

## APPLICATIONS

- Removal of paraffin from formalin-fixed, paraffin-embedded (FFPE) sample slices
- Deparaffinization for downstream DNA and RNA purification

## SPECIFICATIONS

### STARTING MATERIAL

2–4 fresh slices from a FFPE sample

### EXTRACTION TIME

Approximately 45–60 min

### YIELD

Depends on the type, quality and amount of starting material  
Typically, 50-200 reactions per 10 ml FFPE

### DNA AND RNA ISOLATION

Compatible with all common silica-based DNA and RNA purification kits

# GenUP™ FFPE Paraffin Removal Solution

## DESCRIPTION

biotechrabbit™ GenUP FFPE Paraffin Removal Solution is an odor-free, biofriendly and innovative solution to deparaffinize FFPE slices within minutes in a single step. This product replaces conventional procedures that involve toxic and/or flammable solvents. After removal of paraffin from FFPE slices with GenUP FFPE Paraffin Removal Solution, continue with the genomic DNA or RNA purification kit of your choice.

## MATERIALS SUPPLIED BY THE USER

- Reaction tubes
- Pipet tips
- GenUP gDNA Kit (BR0700601) or other nucleic acid purification kit
- GenUP™ Total RNA Kit (BR0700901) or other nucleic acid purification kit

## STEPS BEFORE STARTING

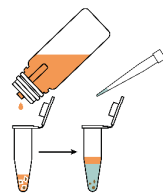
- The GenUP FFPE Paraffin Removal Solution has a freezing point of 18°C. Buffer in a solid aggregate state can be heated to 25–35°C in a water bath to melt.
- Heat a thermomixer to 60–65°C.
- Place the buffers, tubes and columns from the nucleic acid purification kit on the bench so they will be available for immediate use after the paraffin removal step.

## SHORT PROTOCOL

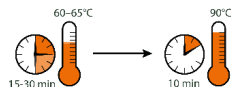
### STEPS

- Cover FFPE sample slices with GenUP FFPE Paraffin Removal Solution, add the lysis buffer from your genomic DNA purification or total RNA extraction kit and vortex.

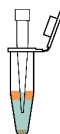
### SCHEME



- Incubate first at 60–65°C to degrade proteins. Then incubate for an additional 10 min at 90°C.



- Transfer the lower phase to a new tube and continue with the GenUP gDNA, GenUP Total RNA or other nucleic acid purification kit.



## PROTOCOL

### PROCEDURE

### NOTES

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- Cut FFPE slices from your FFPE sample with a microtome.
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- Place 2–4 FFPE slices in a 1.5 ml reaction tube.
  - Depending on the tissue and the age of the FFPE block, more slices are needed in the case of low recovery.
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- Add 3–5 drops of GenUP FFPE Paraffin Removal Solution to the FFPE slices.
  - The FFPE slices dissolve immediately. Add enough solution to submerge the FFPE slices (approximately 300–500 µl).
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- Add buffers for the first step of GenUP DNA or RNA purification kit.
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- Vortex the reaction mixture for 10 s.
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- Place the reaction mixture in the thermomixer and incubate at 60–65°C for the time indicated in the purification kit protocol.
  - Incubate at least for 15–30 min until FFPE slices are dissolved.
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- Incubate for an additional 10 min at 90°C.
  - If the two phases have not separated, centrifuge the reaction mixture briefly to collect the aqueous phase at the bottom of the reaction tube.
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- Remove the reaction mixture from the thermomixer.
  - The upper, orange phase contains the paraffin.
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- Transfer the lower colorless aqueous phase containing the DNA or RNA to a new 1.5 ml reaction tube.
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- Continue with the protocol for the GenUP gDNA or Total RNA Kit. For RNA purification, start with adding ethanol.

## SAFETY PRECAUTIONS

- This kit is made for single use only!
- Don't eat or drink components of the kit!
- The kit shall only be handled by educated personal in a laboratory environment!
- Wear gloves while handling these reagents, and avoid skin contact! In case of contact, flush with water immediately.
- Handle and discard waste according to local safety regulations.
- Do not add bleach or acidic components to the waste after sample preparation!

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## CERTIFICATE OF ANALYSIS

A distinct band of 750 bp was amplified using specific primers after DNA extraction from a paraffin block with embedded human tissue by PCR.

Quality confirmed by: Head of Quality Control

## SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)/Sicherheitshinweise finden Sie in den SDS unter: <http://www.biotechrabbit.com/support/documentation.html>.

## USEFUL HINTS

- Visit Applications at [www.biotechrabbit.com](http://www.biotechrabbit.com) for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.

## CONTACT BIOTECHRABBIT

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*valid from 30.08.2019*